

COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



FORM PTO-1449 (Modified)  
LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)  
Sheet 1 of 1

In the Application of BOLTON et al.

Serial No.: 09/878,781

Art Unit: Unassigned-1645

Filed: June 11, 2001

Examiner: Unassigned

Title: IMMUNIZATION OF DAIRY CATTLE WITH GapC PROTEIN AGAINST STREPTOCOCCUS INFECTION

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
/	AA-2		/				

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES	NO
SD	AB-2	WO 96/41879	December 27, 1996	PCT				
SD	AC-2	WO 98/18930	May 7, 1998	PCT				
SD	AD-2	WO 99/42588	August 26, 1999	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
SD	AE-2	Finch et al., "Further Studies on the Efficacy of a Live Vaccine Against Mastitis Caused by Streptococcus <i>Uberis</i> ," <i>Vaccine</i> 15(10):1138-1143 (1997)
SD	AF-2	Gase et al., "Cloning Sequencing and Functional Overexpression of the Streptococcus Equisimilis H46A gapC Gene Encoding a Glyceraldehyde-3-Phosphate Dehydrogenase that also Functions as a Plasmin(ogen)-Binding Protein. Purification and Biochemical Characterization of the Protein," <i>European Journal of Biochemistry</i> 239(1):42-51 (1996)

Examiner:

SD

Date Considered:

January 04

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Atty Dkt No. 9000-0055

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In the Application of BOLTON et al.

Serial No.: 09/878,781

Art Unit: 1686 1645

Filed: June 11, 2001

Examiner: Unassigned

Title: IMMUNIZATION OF DAIRY CATTLE WITH GapC PROTEIN AGAINST STREPTOCOCCUS INFECTION

## U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	<del>Date</del> Name	Name	Class	Sub Class	Filing Date
SD	AA-2	4,954,618	Fahnestock		530	387	
	AB-2	4,977,082	Boyle et al.		435	71.1	
	AC-2	5,108,894	Bjorck et al.		435	6	
	AD-2	5,237,050	Boyle et al.		530	350	
	AE-2	5,328,996	Boyle et al.		536	23.1	
	AF-2	5,721,339	Boyle et al.		530	350	
SD	AG-2	5,863,543	Jiang et al.		424	24.1	

## FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO
SD	AH-2	EP 0 887 410	30 December 1998	EPO			
	AI-2	WO 00/39299	6 July 2000	PCT			
	AJ-2	WO 96/40928	19 December 1996	PCT			
SD	AK-2	WO 98/18930	7 May 1998	PCT			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

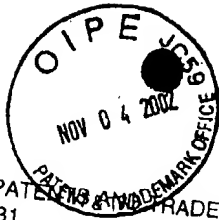
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In the Application of BOLTON et al.

Serial No.: 09/878,781

Filed: June 11, 2001

Art Unit: ~~4636~~ 1645

Examiner: Unassigned

Title: IMMUNIZATION OF DAIRY CATTLE WITH GapC PROTEIN AGAINST STREPTOCOCCUS INFECTION

Exam. Init.	Ref. Desig.	Description
SD	AL-2	Baird et al., "Epitopes of Group A Streptococcal M Protein Shared With Antigens of Articular Cartilage and Synovium," <i>The Journal of Immunology</i> <u>146</u> (9):3132-3137 (1991)
	AM-2	Bisno, Alan. L., "Group A Streptococcal Infections and Acute Rheumatic Fever," <i>New Eng J. Med.</i> <u>325</u> :783-793 (1991)
	AN-2	Bronze et al., "Epitopes of Streptococcal M Proteins that Evoke Antibodies That Cross-React with Human Brain," <i>The Journal of Immunology</i> <u>151</u> (5):2820-2828 (1993)
	AO-2	Cunningham et al., "Study of Heart-Reactive Antibody in Antisera and Hybridoma Culture Fluids Against Group A Streptococci," <i>Infection and Immunity</i> <u>42</u> (2):531-538 (1983)
	AP-2	Dale, J. L., "Multivalent Group A Streptococcal Vaccine Designed to Optimize the Immunogenicity of Six Tandem M Protein Fragments," <i>Vaccine</i> <u>17</u> (2):193-200 (1999)
	AQ-2	Dale, J. L. and Beachy, G. H., "Multiple, Heart-Cross Reactive Epitopes of Streptococcal M Proteins," <i>J. Exp. Med.</i> <u>161</u> :113-122 (1995)
	AR-2	Dale, J. L. and Beachy, G. H., "Protective Antigenic Determinant of Streptococcal M Protein Shared With Sarcolemmal Membrane Protein of Human Heart," <i>J. Exp. Med.</i> <u>156</u> :1165-1176 (1985)
	AS-2	Froude et al., "Cross-Reactivity Between Streptococcus and Human Tissue: A Model of Molecular Mimicry and Autoimmunity," <i>Microbiology and Immunology</i> <u>145</u> :5-26 (1989)
	AT-2	Kehoe, Michael A., "Group A Streptococcal Antigens and Vaccine Potential," <i>Vaccine</i> <u>9</u> :797-806 (1991)
	AU-2	Lancefield, Rebecca C., "Current Knowledge of Type-Specific M Antigens of Group A Streptococci," <i>J. of Immunology</i> <u>89</u> :307-313 (1962)
	AV-2	Langone, John J., "Protein A of <i>Staphylococcus aureus</i> and Related Immunoglobulin Receptors Produced by Streptococci and Pneumococci," <i>Advances in Immunology</i> <u>32</u> :167 (1982)
SD	AW-2	Liljeqvist et al., "Surface Display of Functional Fibronectin-Binding Domains on <i>Staphylococcus carnosus</i> ," <i>FEBS Letters</i> <u>446</u> :299-304 (1999)

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Art Unit: ~~1636~~ 1645

Filed: June 11, 2001

Examiner: Unassigned

Title: IMMUNIZATION OF DAIRY CATTLE WITH GapC PROTEIN AGAINST STREPTOCOCCUS INFECTION

Exam. Init.	Ref. Desig.	Description
SD	AX-2	Stollerman, G. H., "Rheumatogenic Streptococci and Autoimmunity," <i>Clin. Immunol. Immunopathology</i> , <u>61</u> :131-142 (1991)

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